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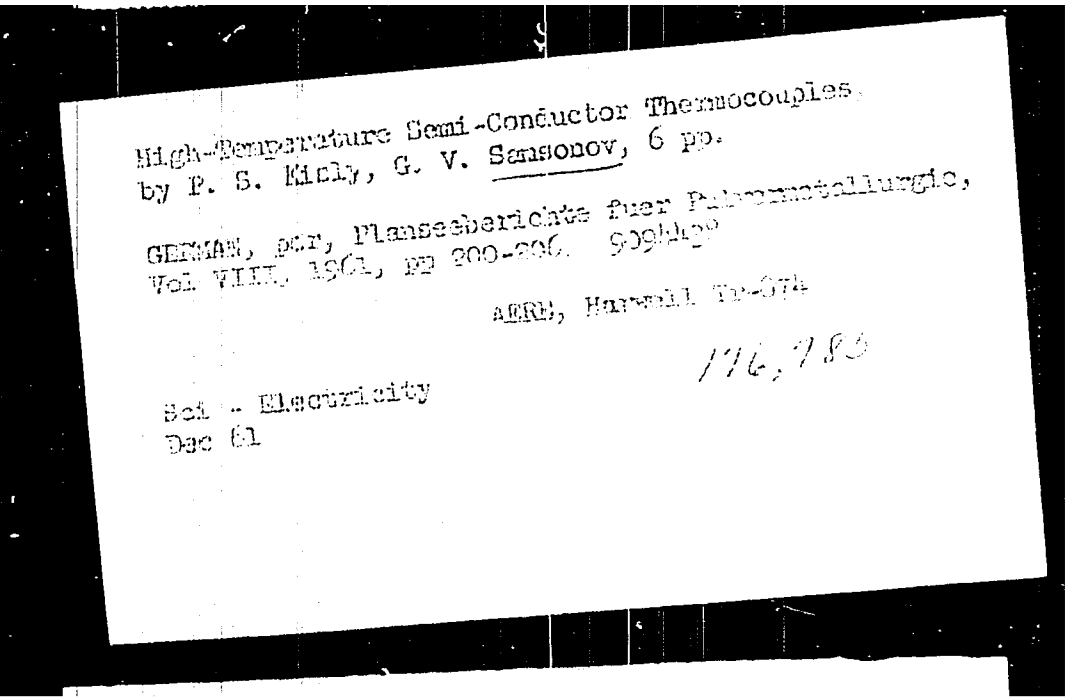

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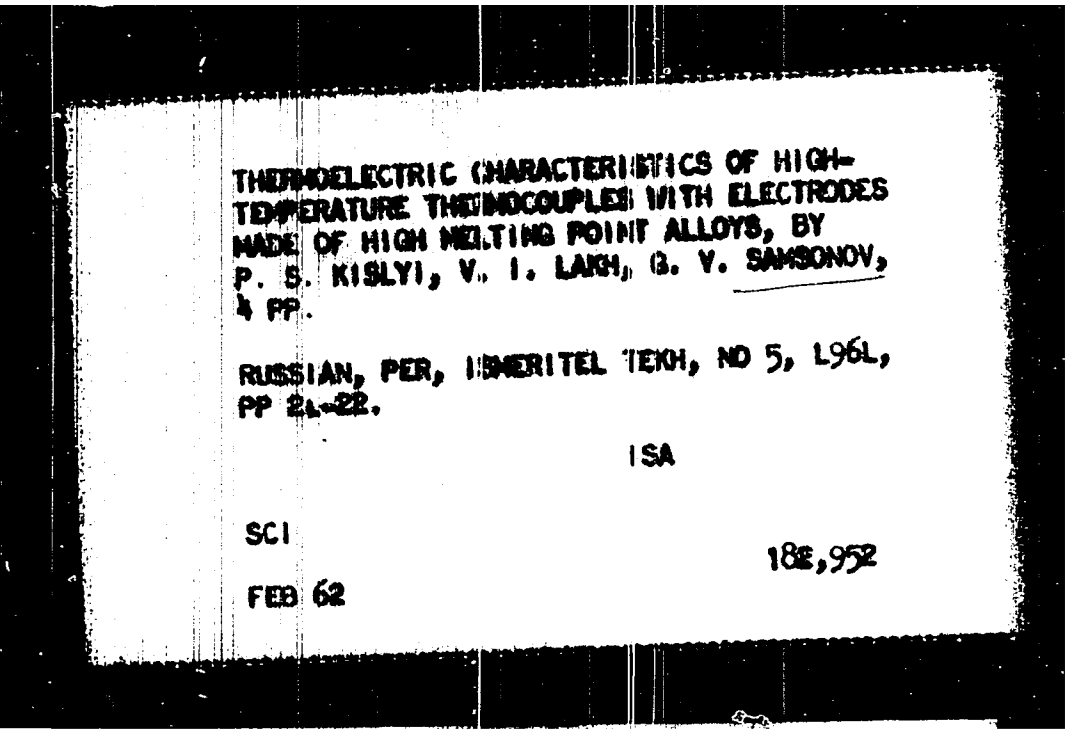

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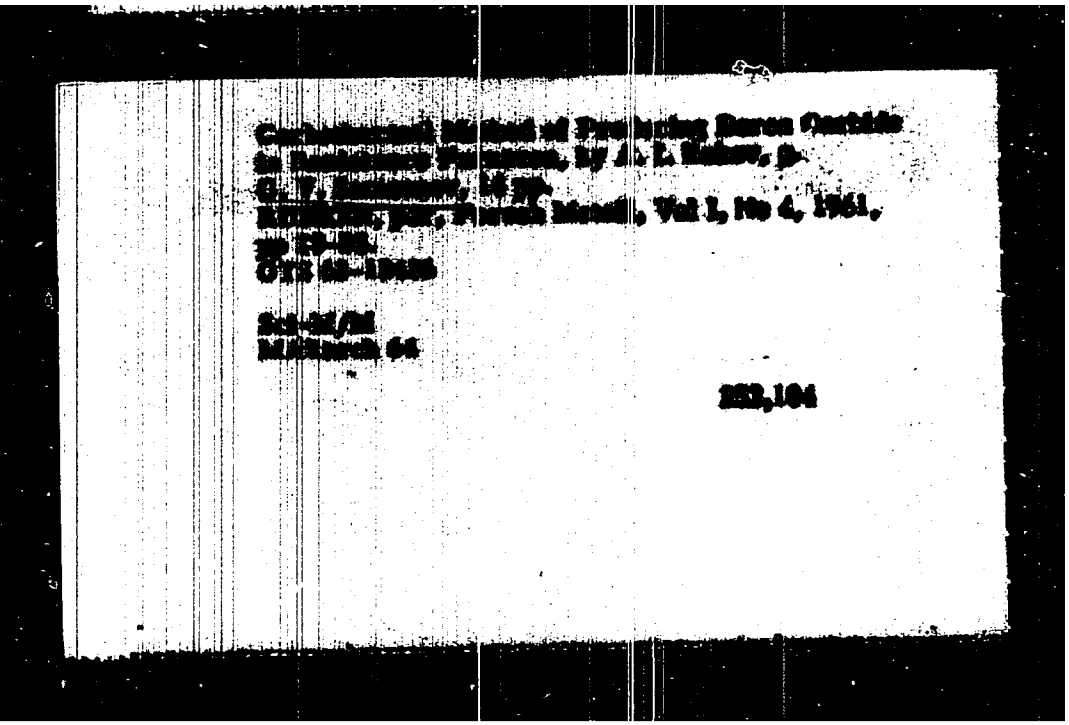

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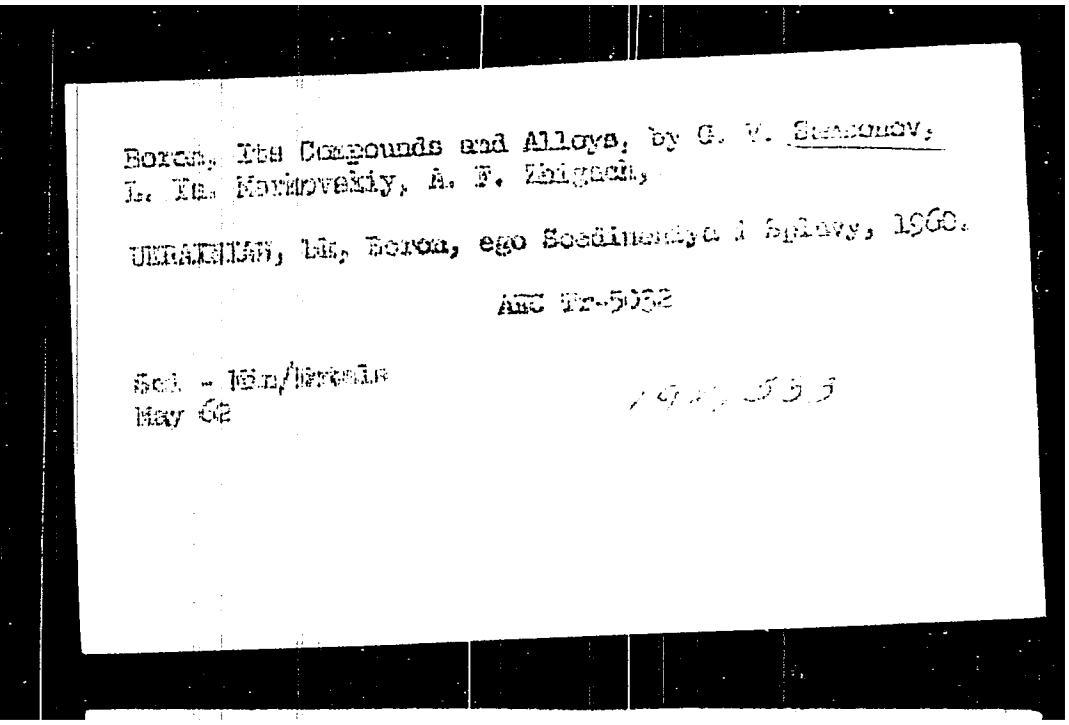

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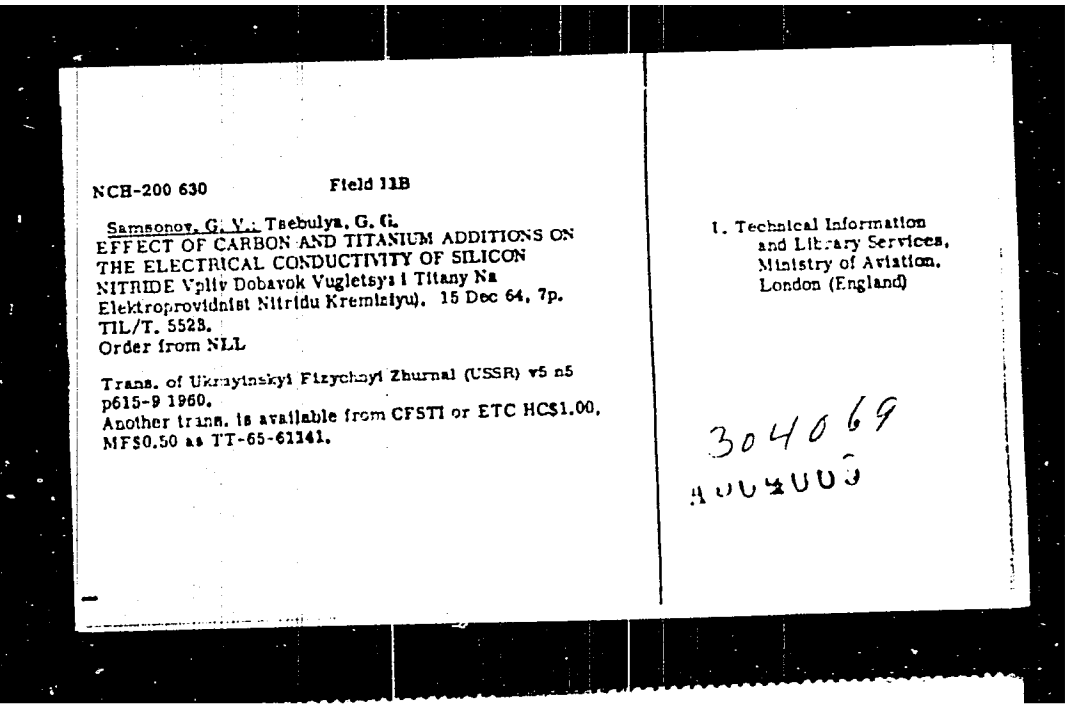

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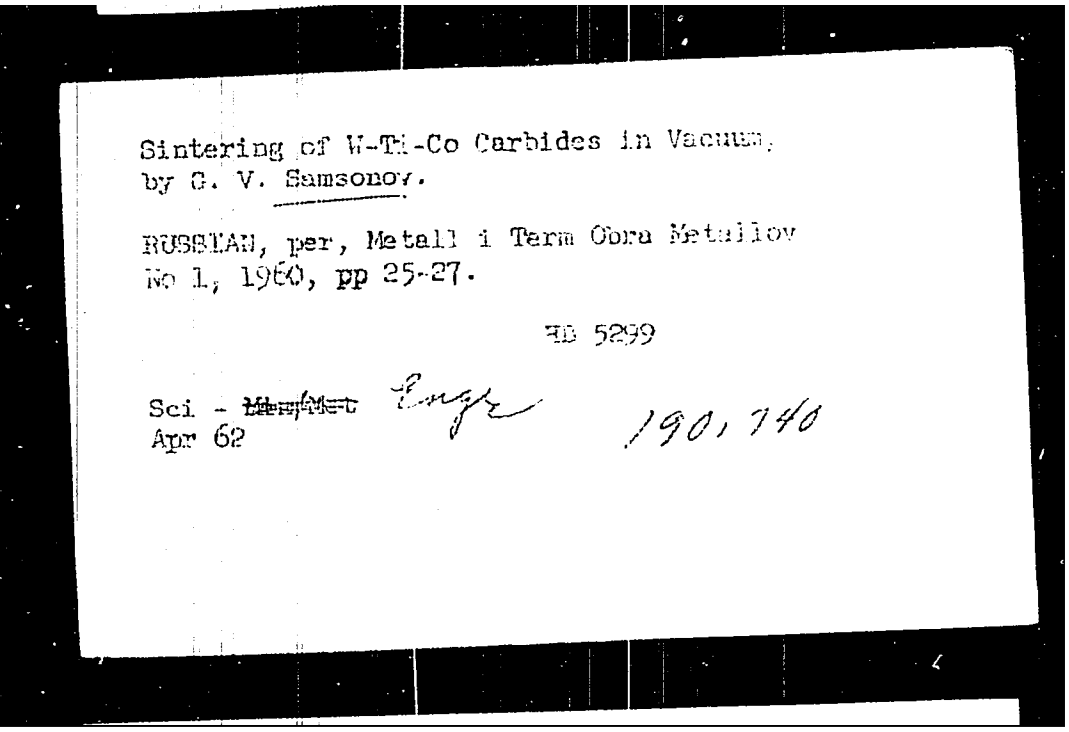

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The sulfidization of CeO_2 was best accomplished by introducing dry H_2S over CeO_2 at 900°C. The addition of carbon contaminated the end product with carbides, and the addition of sulfur only rendered the procedure more complicated. The synthesis of monosulfide, was conducted according to the reaction $Ce_2S_3 + CeO_2 + 2C \rightarrow 3CeS + 2CO$. The reaction was carried out in a vacuum electric furnace at 1500-1600°C. The reaction products were contaminated with carbides and oxysulfides of cerium; the pure product was obtained after subsequent second heating with an addition of 70% of the initial stoichiometric quantity of Ce_2S_3.
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1. Cerium compounds--Synthesis
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I. Samsonov, G. V.
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III. AID-60-85
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V. AD-246 714

Office of Technical Services

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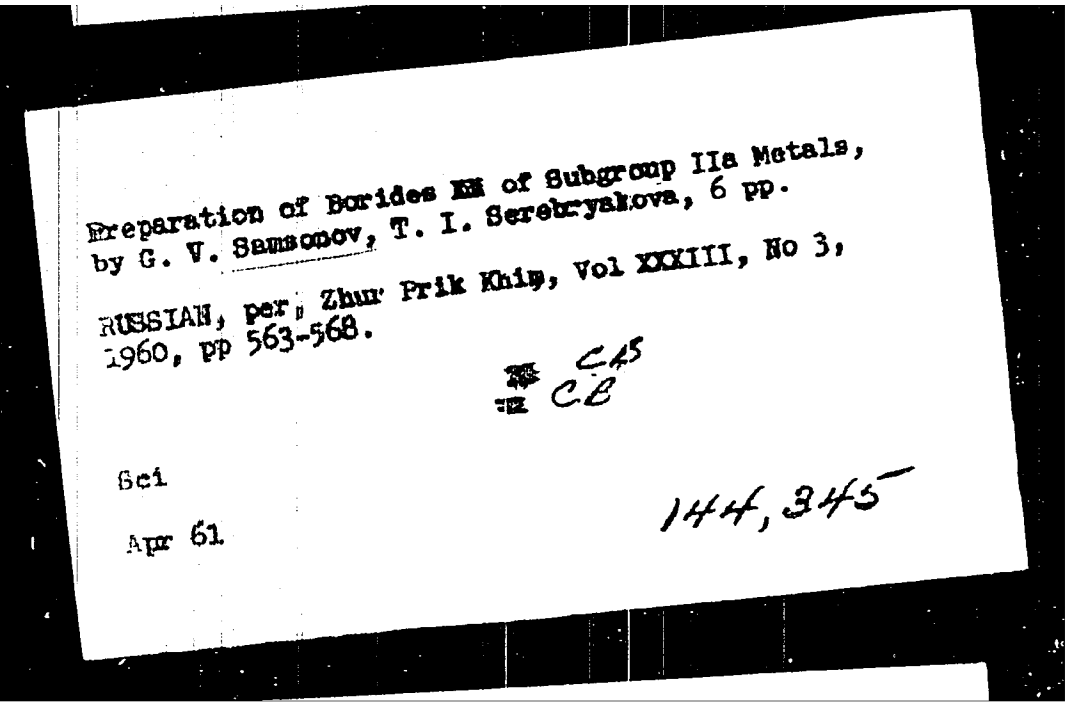

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ALLOYS OF THE RARE METALS WITH BORON AND SILICON FOR CERTAIN RADIO AND ELECTRICAL APPLICATIONS, BY G. V. SAMSONOV, V. S. NESHPOR, 31 PP.

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JPRS 17750

SCI - M/M

FEB 63

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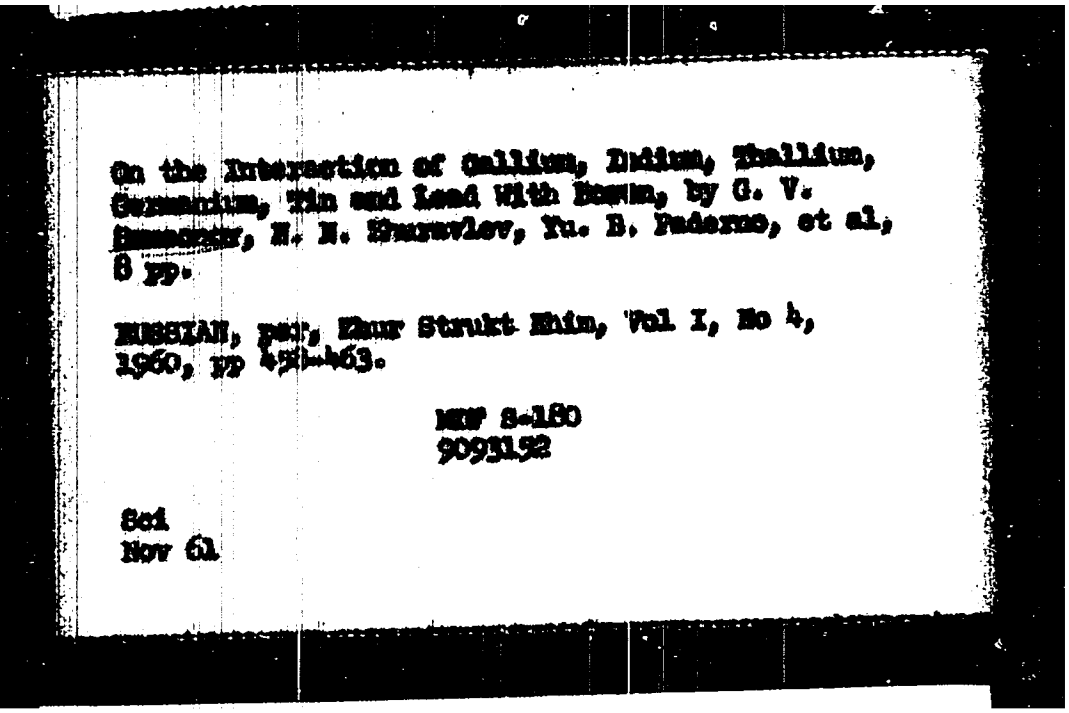

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Electronic Structure and Properties of the Nitrides of Refractory Metals, by G. V. Samsonov, 5 pp.

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G. V. Samsonov

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Aug 67

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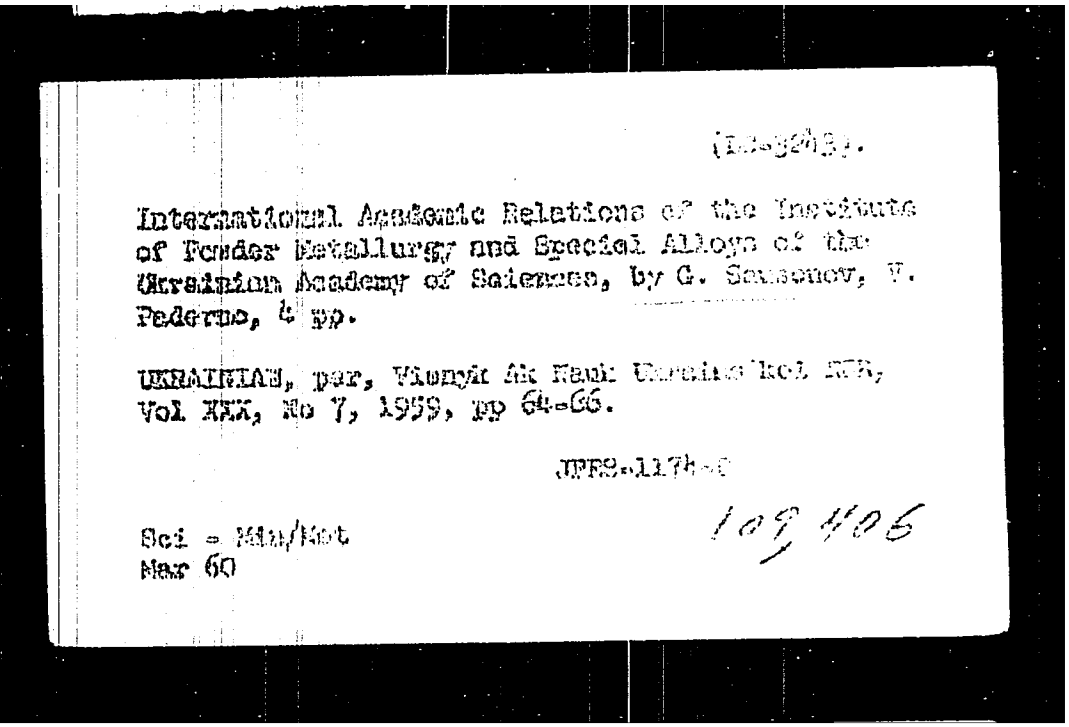

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Chromatography of Insulin on Ion Exchange Resins,
by G. V. Samsonov, M. D. Faddeyeva, 8 pp.

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The Electrical Conductivity of Certain Compounds of the Transitional Metals With Boron, Carbon and Nitrogen, and the Electrical Conductivity of Alloys of These Compounds, by G. V. Samsonov, 7 pp.

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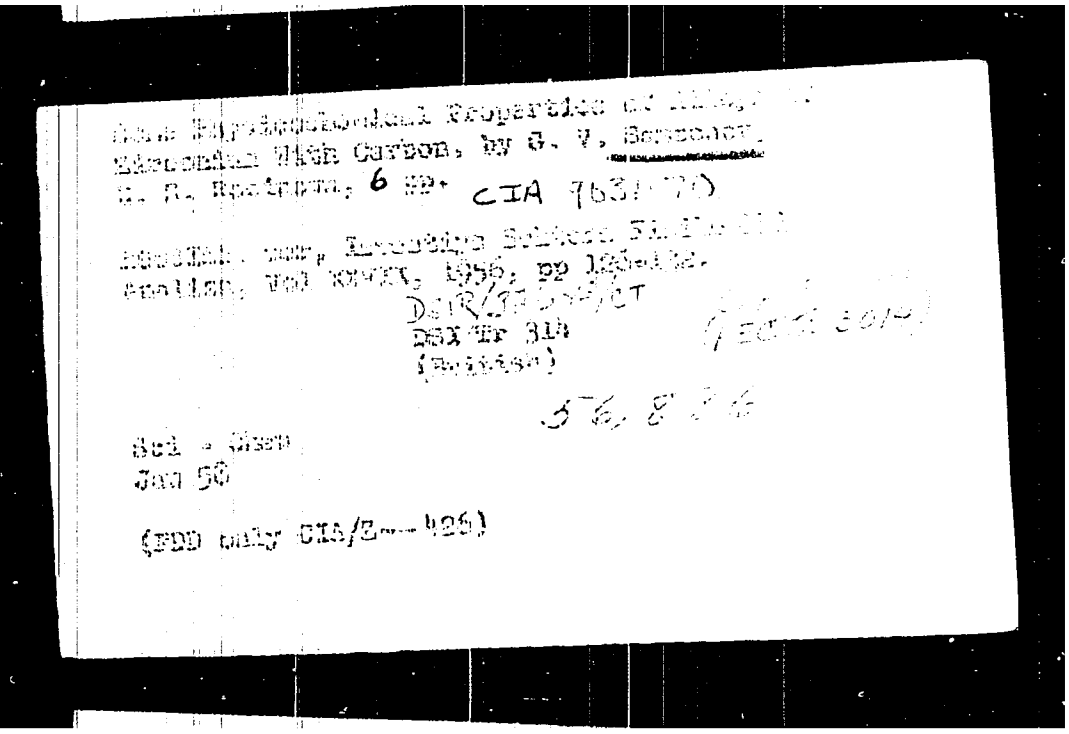

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[illegible], USSR, Izvestiya Akademii Nauk
SSSR, Ser Fizicheskaya, 1956, pp 1[illegible]

DSIR/IT [illegible]/CT
DSIR Fr 318
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Sci - Chem
Jan 58

(FDD only DIA/S--426)

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Statics and Dynamics of Ion Exchange Between Streptomycin and Metal and Hydrogen Ions on Carboxylated Resins, by G. V. Samsonov, S. E. Bealer, 6 pp.

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Tr No 3902
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Sci - Min/Metallurgy; Metals
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Ion Exchange Between ~~Span~~ Streptomycin and Sodium and Calcium Ions on Permutite, by G. V. Samsonov, S. E. Breslar, 4 pp.

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RUSSIAN, bimo per, Kolloid Zhur, Vol XVIII, No 1, 1956, pp 88-92. CIA 9000405

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Sci - Chemistry
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Some Physicochemical Properties of Compounds of the Transitional Refractory Metals With Boron, Carbon and Nitrogen, and the Characteristics of Their Binary Alloys, by G. V. Samsonov, 40 pp.

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SLA Tr R-1994
AEC Tr 3016

Sci
Aug 58

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201320009-1

62-20149

Samsonov, G. V. and Grodshtein, A. E.
SOME PROPERTIES OF THE ALKALINE AND RARE EARTH METAL HEXABORIDES. [1962] [6]p. 19 refs. Order from OTS or SLA $1.10 62-20149

Trans. of Zhur[nal] Fiz[icheskoi] Khim[ii] (USSR) 1956, v. 30 [no. 2] p. 379-381.

DESCRIPTORS: *Borides, *Rare earth elements, *Alkaline earth elements, Boron compounds, Structural properties.

The hexaborides of Ce, La, Ba and Ca were prepared by a vacuum-thermial method. On the basis of a tensimetric analysis of the reaction $2CeO_2 + 3B_4C + C = 2CeB_6 + 4CO$ it was established that this reaction proceeds in several stages involving the intermediate formation of the lower oxides of cerium Ce_4O_7 and Ce_2O_3, and the heats of formation of these oxides as
(Chemistry--Physical, TT, v. 9, no. 10) (over)

I. Samsonov, G. V.
II. Grodshtein, A. E.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201320009-1

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Properties of Hexaborides of Alkali-and Rare Earth-metals, by G. V. Samsonov, ~~and co-workers~~ et al, 3 pp.

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Metal-Thermal Methods in Chemistry and Metallurgy, by G. V. Samsonov, et al.

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G. V. Samsonov

Activation Energy for Diffusion in Boron, Carbon, Nitrogen and Silicon in Refractory Group Metals, by G. V. Samsonov.
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*NTIS TT 72-52019

Aug 72

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201320009-1

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Metallo-Ceramic Hard Alloys With Non-Uniform Distribution of Carbide Constituents for Working Abrasive Materials, by G. A. Meyerson, G. V. Samsonov, 6 pp.

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Sci Mus Lib Tr 56/3881

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May 57 CTS/dex

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Physicochemical Properties of Boron-Carbon Alloys, by G. V. Samsonov, N. N. Zhuravlev, I. G. [illegible], 7 pp.

RUSSIAN, per, Fiz Metall i Metallov (USSR), No 3, 1956, pp 309-313.

LC or SLA 59-10060

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Diffusion of Boron, Carbon and Nitrogen Into Transition Metals of IV, V and VI Groups of the Periodic Table, by G. V. Samsonov, V. P. Latisheva, 5 pp.

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SLA R-1744
AEC Tr 2949
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Sai
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Ion Exchange Chromatography of Streptomycin on Permutite, by S. E. Bresler, G. V. Samsonov, 4 pp.

RUSSIAN, bimo per, Kolloid Zhur, Vol XVIII, No 2, Mar/Apr 1956, pp 155-157. CIA 9001313 C, Reel No 55

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Chemistry of the Borides, by G. V. Samsonov, L. Ya. Markovskiy, 52 pp.

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Aug 56 CTS/Dex

Radiac Tech Lit
I, II-631
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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201320009-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201320009-1

Samsonov, G. V. and Golubeva, N. K.
THE MECHANISM OF AND RULES GOVERNING THE OXIDATION OF HARD HIGH-MELTING TITANIUM COMPOUNDS (Nekotorye Zakonomernosti i Mekhanizm Okisleniya Tverdykh Tugoplavkikh Soedinenii Titana). Sep 61 [14]p. 15 refs. RTS 1944. Order from OTS or SLA $1.60 61-28160

Trans. of Zh[urnal] Fiz[icheskoi] Khim[ii] (USSR)1956, v. 30, no. 6, p. 1258-1266.

DESCRIPTORS: *Titanium compounds, *Carbides, *Nitrides, *Borides, Oxidation, Temperature, Hardness, *Oxides, Chemical analysis, X-ray diffraction analysis, Electron diffraction analysis.

It has been found that the oxidation isotherms for dense compacted specimens of titanium carbide and nitride consist of two sections, an initial curved section (Chemistry--Physical, TT, v. 6, no. 12) (over)

61-28160

I. Samsonov, G. V.
II. Golubeva, N. K.
III. RTS-1944
IV. Department of Scientific and Industrial Research (Gt. Brit.)

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201320009-1

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Tantalum and Niobium in Chemical Industry, by G. V. Samsonov, V. I. Konstantinov, 16 pp. UNCLASSIFIED

RUSSIAN, Zur, Khim Nauka i Prom, Vol 3, No 5, 1956, pp 517-522.

Sci Mus Lib Tr 57/4325

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Effect of the Degree of Swelling of Ion-Exchange Resins on the Selectivity of Sorption of Aureomycin, Terramycin, and Streptomycin Ions by Cation-Exchange Resins, by O. V. Samsonov, 6 pp.

RUSSIAN, bimo per, Kolloid Zhur, Vol XVIII, No 5, Sep/Oct 1956, pp 592-596.

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Statics and Dynamics of Aureomycin and Terramycin Ion Exchange With Hydrogen and Sodium Ions on Cationites, by G. V. Samsonov, L. M. Shuvalova, M. P. Shesterikova, S. F. Lavrentyeva, V. S. Maslennikova, A. A. Kononova, V. V. Bokareva, 6 pp.

RUSSIAN, bimo per, Kolloid Zhur, Vol XVIII, No 4, Jul/Aug 1956, pp 474-489.

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The Sorption and Chromatography of Aureomycin, by G. V. Samsonov, S. E. Bresler, N. A. Rosentsveig, 4 pp.

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The Theory of Chromatography by S. E. Bresler, G. V. Samsonov.

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Reduction of Titanium Dioxide by Carbon Proceeding Through Lower Oxides, by G. V. Samsonov, 4 pp.

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Scientific -- Chemistry
Jun 56/dex

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Mechanism of Surface Impregnation of Iron and Steel With Boron, by G.V. Samsonov, N. Ya. Tsetina.

RUSSIAN, per, Fizika Metallov i Metallovedenie, Vol I, No 2, 1955, pp 303-306.

Brutcher Tr 3745 35,498

Sci - Minerals/Metals, Chemistry

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RUSSIAN, per, Ogneupory, Vol XX, 1955, pp 72-.

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Sep 60

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Compressibility of Powders of Borides, Carbides, and Nitrides of High-Melting Metals, by G.V. Samsonov, V. S. Neshpor

RUSSIAN, thrice mo per, Dok Ak Nauk SSSR, Vol 104, No 3, 1955, pp 405-408

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Scientific - Min/Metals
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Study of Some Relationships in the Formation of Alloys of Isomorphic Borides, by G. V. Samsonov, V. S. Neshpor.

RUSSIAN, no per, Zhur Fiz Khim, Vol XXIX, No 5, 1955, pp 839-845.

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Investigations of Interdiffusion of Titanium and Columbium Borides, by G. V. Samsonov, V. S. Neshpor,

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BK 25,977 Brutcher Tr 3557 $2.45

Scientific - Min/Metals Aug 55 CTS

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Some Physico-Chemical Properties of 'Alloys' of Titanium Boride and Nitride, by G. V. Samsonov, E. V. Petrash.

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RUSSIAN, per, Dok Ak Nauk SSSR, Vol CV, No 3, 1955, p 499.

LC or HLA 59-10016

Sci - Chemistry
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Some Physico-Chemical Properties of Systems Formed by Titanium- and Zirconium-Borides, by G. A. Meyerson, G. V. Samsonov, R. B. Kotelnikov. UNCLASSIFIED

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Vol XXV, 1954, pp 89-93.

Sci Mus Lib 57/1487

Sci - Phys; Chem
Mus Sep 58

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The Problem of the Solubility of Boron and Carbon in Boron Carbide $B_{12}C_3$(B_4C), by G. S. Zhdanov, G. A. Meerson, N. N. Zhuraveyev, G. V. Samsonov.

RUSSIAN, no per, Zhur Fiz,Khim, Vol XXVIII, 1954, pp 1076-1082.

AEC Tr 3074

Sci - Chem

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Nov 57

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Displacement of Chemical Equilibrium in a Surface Layer, by S. E. Breslar, G. V. Samsonov, 5 pp.

Full translation

RUSSIAN, bimc per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 1, USSR, Jan/Feb 1954, pp 27-33. CIA D 151104

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Scientific - Chemistry CTS 66/Mar 55

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Physical Properties of Some Interstitial Phases, by G. V. Samsonov. UNCLASSIFIED

RUSSIAN, per, Dok Ak Nauk SSSR, vol XCIII, No 4, 1953, pp 689-692.

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Scientific - Minerals/Metals

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Price $4.75

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Investigation of the Melting Point Diagram of the Boron-Carbon System and Nature of Phases in This System, by G. A. Meerson, G. V. Samsonov, 17 pp.

RUSSIAN, per, Iz Sektora Fiz Khim Anal Inst Obshchet Neorg Khim, Ak Nauk SSSR, Vol XXII, 1953, pp 92-103.

ABC Tr 3317

Sci - Chem

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Sep 58

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Heats of Disintegration in the Diffusion of Boron Into Tungsten and Molybdenum Metal, by G. V. Samsonov, UNCLASSIFIED

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The Problem of the Oxidizability of Boron Nitride,
by I. L. Zaryansky and G. V. Samsonov, 2 pp.

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ZAGYANSKII, I. L.
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POPOVA, M. V.

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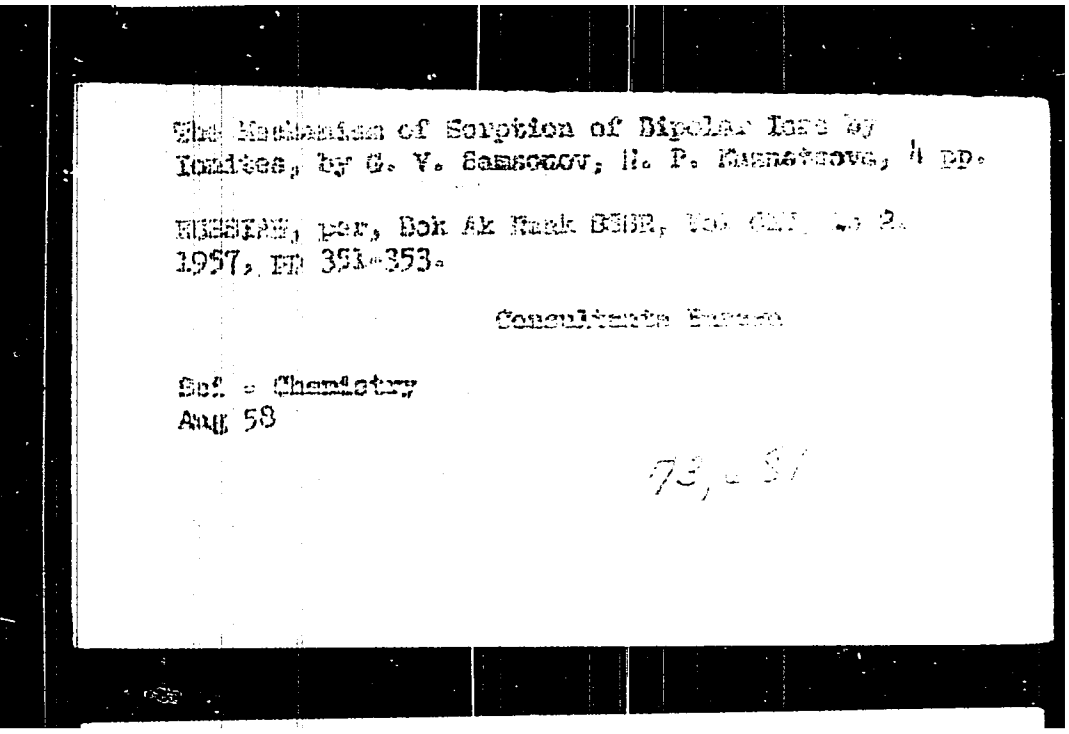

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